CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

12th September 2016

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08.**
Work order No: EE/BTP/BBMP/E-PMT/295/2015-16..'

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Roopa.G

CIVIL TECH LABS BANGALORE

(ROOPA G.)
Technical Manager

CIVIL TECH LABS
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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08. Work order No: EE/BTP/BBMP/E-PMT/295/2015-16.
Name of the Agency	Sri. Taranath K. R.
Date of Testing	12/09/2016
Technical Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	**100**	**Satisfy the Requirements**
45	95-100	**98.6**	
22.4	60-80	**73.5**	
11.2	40-60	**52.4**	
4.75	25-40	**32.4**	
2.36	15-30	**22.8**	
0.6	8-22	**18.3**	
0.075	0-8	**6.5**	

Note:

1.The results relate only to the items tested.

2.Report shall not be reproduced except in full, without the written approval of the lab.

3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the customer.

Roopa.G

(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON AGGREGATES ('AIV' & Combined Flakiness & Elongation Index)

Wet Mix Macadam

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08.Work order No: EE/BTP/BBMP/E-PMT/295/2015-16.
Agency of the Name	Sri. Taranath K. R.
Date of Testing	12/09/2016
Reference	**MORTH Table 400-10**

Sample No	Aggregate Impact Value 'AIV' in %	Average AIV in %	Remarks
1	22.3	21.9	Satisfactory (As per MORTH for WMM, Maximum allowed AIV is 30 %)
2	21.5		

Test	Result in %	Combined Flakiness & Elongation Index 'C-F&E' in %	Remarks
Flakiness Index	11.9	24.5	Satisfactory (As per MORTH for WMM, Maximum allowed 'C-F&E' is 30 %)
Elongation Index	12.6		

AE-B

Note:

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4.The results are based on the test conducted on samples supplied by the client.

Roopa G

(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

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T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

19th September 2016

Dear Sir,

Sub: Testing of Bituminous Concrete.

As requested, tests on physical properties were carried out for the Bituminous Concrete supplied by you, for the work of **'Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08. Work order No: EE/BTP/BBMP/E-PMT/295/2015-16..'**

Please find the enclosed Test Reports of the above.

A&E

Thanking You,
For Civil Tech Labs

Roopa G

CIVIL TECH LABS BANGALORE

(ROOPA G.)
Technical Manager

6/9

CIVIL TECH LABS

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TEST REPORT

TEST ON THE DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08.Work order No: EE/BTP/BBMP/E-PMT/295/2015-16.
Name of the Agency	Sri. Taranath K. R.
Date of Testing	19/09/2016

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	**Test Method A (Centrifuge Method)**	**ASTM: D2172/ D2172M-11**
2	Determination of amount of mineral matter/fines in the extract	**Ashing Method**	

B)

Specification: As Per MORTH (4th Revision) Table 500-18 BC-Grade -2, Bitumen Content for Bc Grade-2 is 5 % TO 7 %

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, **W_1 g**	**2000**
2	Weight of mineral aggregate obtained from centrifuge extractor, **W_2 g**	**1865.9**
3	Weight of mineral matter in the total volume of extract (by ashing), **W_3 g**	**11.2**
4	Total weight of aggregate in the bituminous mixture, **W_4 g = (W_2 +W_3) g**	**1877.1**
5	Total weight of Bitumen extracted from the mixture, **W_5 g = (W_1-W_4) g**	**122.9**
6	Bitumen content in %, **(W_5/W_1) %**	**6.14**

Remarks	**Satisfies the requirements.**

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Technical Manager

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08.Work order No: EE/BTP/BBMP/E-PMT/295/2015-16.
Name of the Agency	Sri. Taranath K. R.
Date of Testing	19/09/2016
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirement.**
13.2	79-100	**98.5**	
9.5	70-88	**77.2**	
4.75	53-71	**66.4**	
2.36	42-58	**48.2**	
1.18	34-48	**39.1**	
0.6	26-38	**32.5**	
0.3	18-28	**24.1**	
0.15	12-20	**17.2**	
0.075	4-10	**6.8**	

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(ROOPA G.)
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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Pachiing pot holes in main & cross roads of Bhadrappa layout, devinagara, Lottegollahalli, Muneshwaranagara, Tatanagara, Kodigehalli and surroundings areas in ward no. 08.Work order No: EE/BTP/BBMP/E-PMT/295/2015-16.
Name of the Agency	Sri. Taranath K. R.
Date of Testing	19/09/2016
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirement.**
13.2	79-100	**99.1**	
9.5	70-88	**78.9**	
4.75	53-71	**65.1**	
2.36	42-58	**49.8**	
1.18	34-48	**38.2**	
0.6	26-38	**31.4**	
0.3	18-28	**25.2**	
0.15	12-20	**18.3**	
0.075	4-10	**7.2**	

AE-8

Note:

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